

Amendments to the Specification:

Please replace paragraph 33 on page 5 with the following amended paragraph:

Referring to Figure 2, the chest assembly 12 has outer layers 22, 24 that are constructed of a lightweight and reasonably moisture resistant material, such as DuPont Sontara® or other suitable fabric. Adhesive layers 26, 28 secure insulating layers 30, 32 to the outer layers 22, 24 respectively. Insulating layers 30, 32 are constructed of Mylar® (polyester) film or other suitable insulating material. Adhesive layers 34, 36 secure the insulating layers 30, 32 to a base layer 38. The base layer 38 is preferably constructed of Mylar film and has a first side 40 and a second side 42. The electrically conductive elements or traces that connect to the electrode connectors 18 are located on the first side 40 of the base layer 38. One such conductive element or trace is shown at 39. A shielding layer 44 for reducing any external inferences or radio frequency noise with the chest assembly 12 is located on the second side 42 of the base layer 38. The shielding layer 44 may be constructed of single or multiple layers of dielectric, or electrically or magnetically conductive material. The back of the electrode connector 18 may also be covered with Mylar to further insulate the chest assembly 12 and prevent an externally applied electric potential from entering the ECG system. The shielding layer preferably comprises an X-patterned grid (graphically represented with hash marks on shielding layer 44 in Figure 2.)